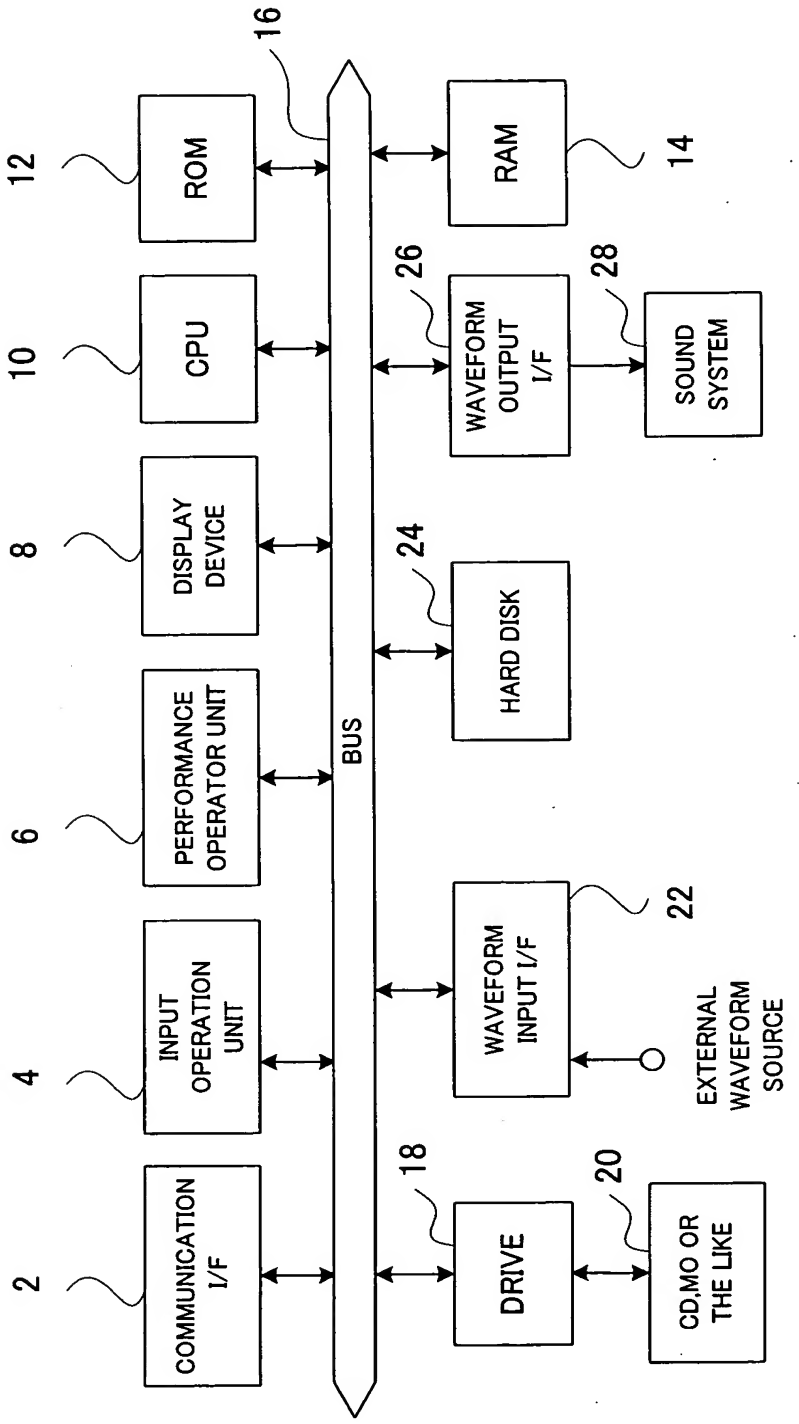

FIG. 1

20070226150045

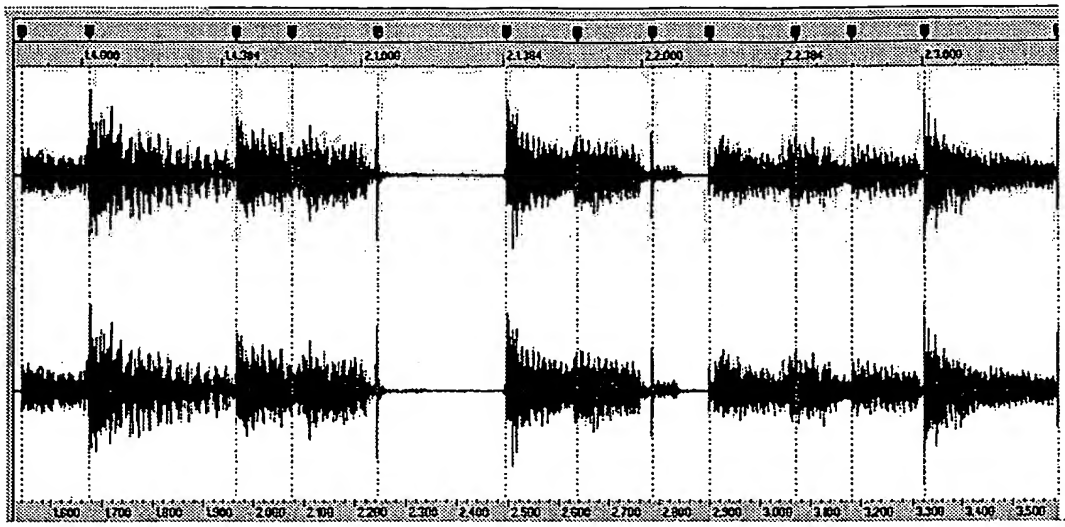

FIG. 2A

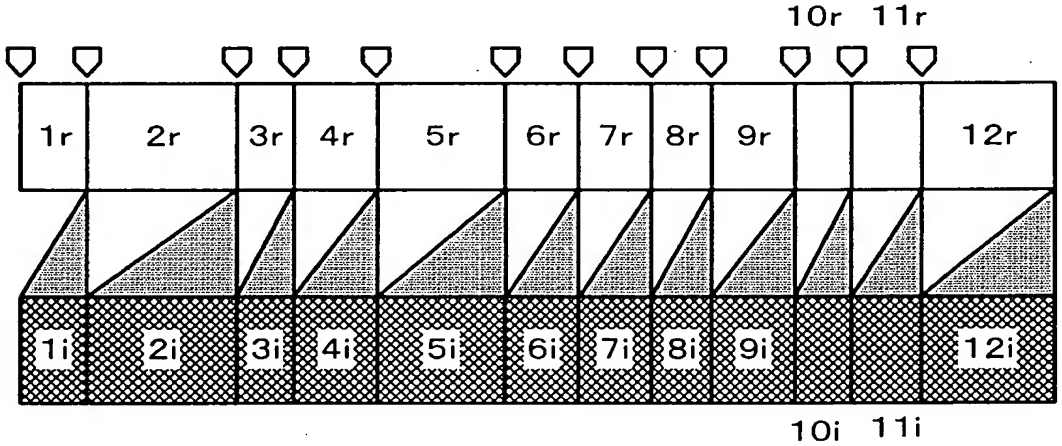

FIG. 2B

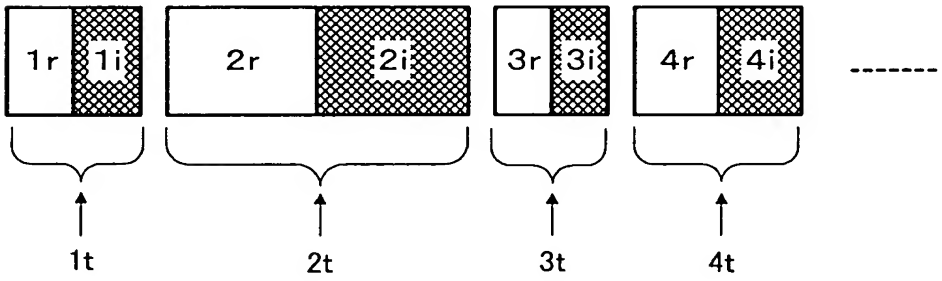

FIG. 2C

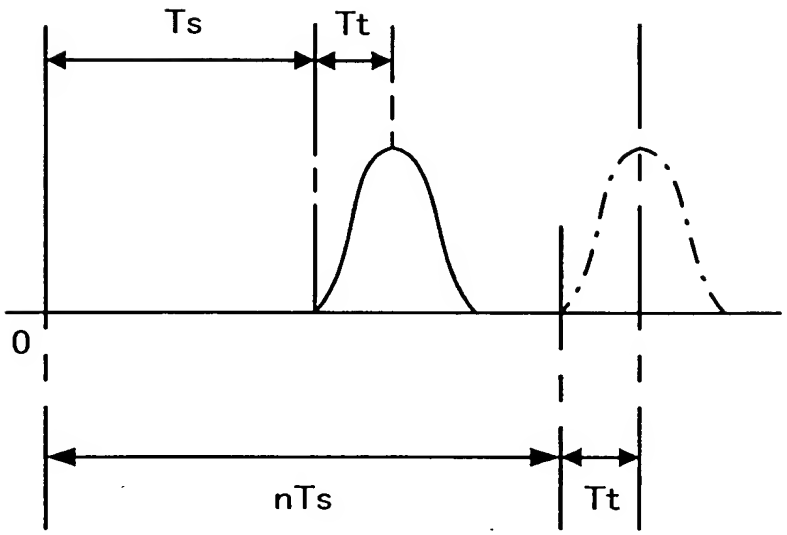

FIG. 3A

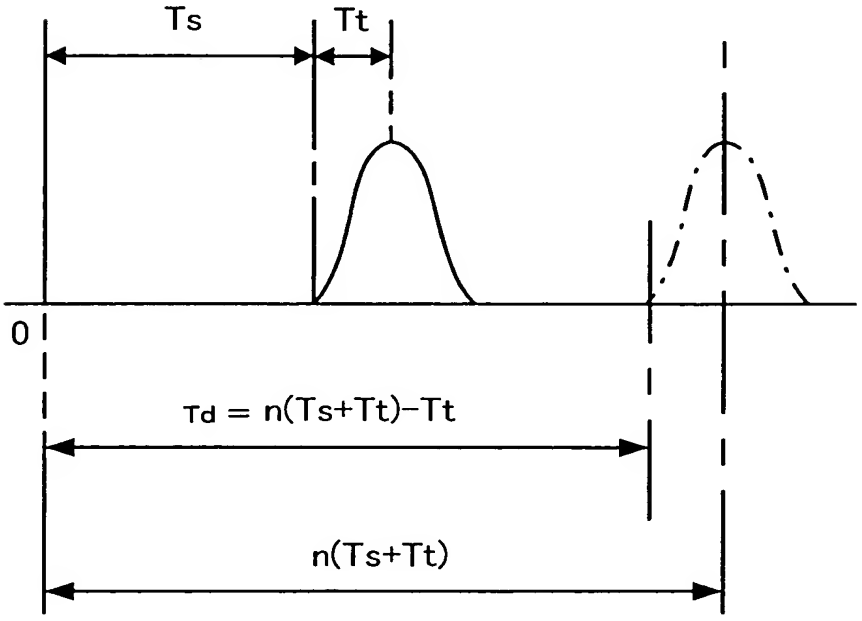

FIG. 3B

20050304.0150

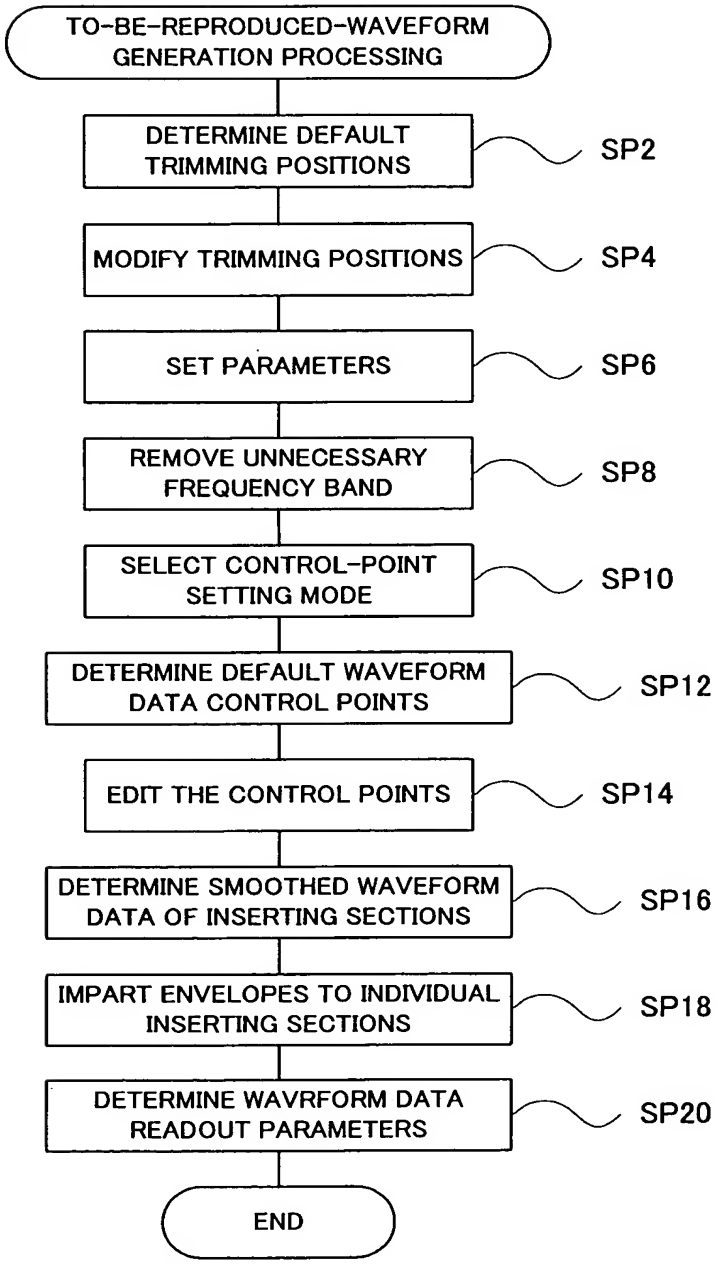

FIG. 4

EP 1 376 504 A2

2001-05-16 09:45:07 from-

INPUT SIGNAL

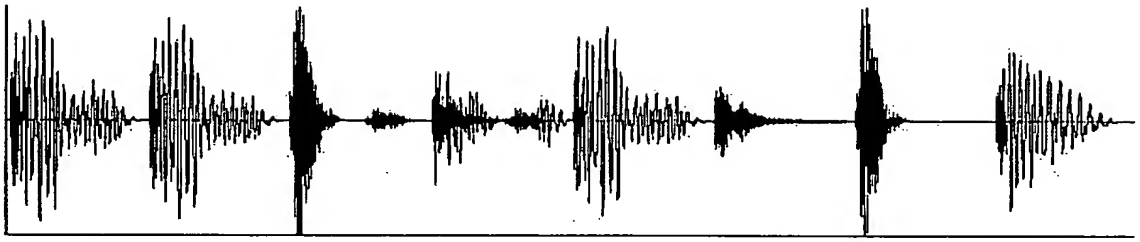

FIG. 5A

RESULT OF UNNECESSARY FREQUENCY BAND REMOVAL

FIG. 5B

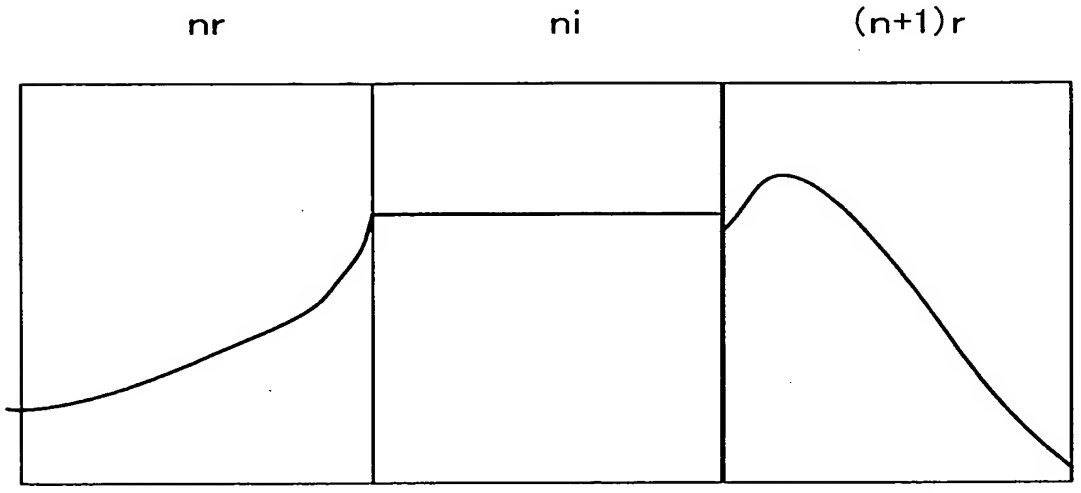

FIG. 15

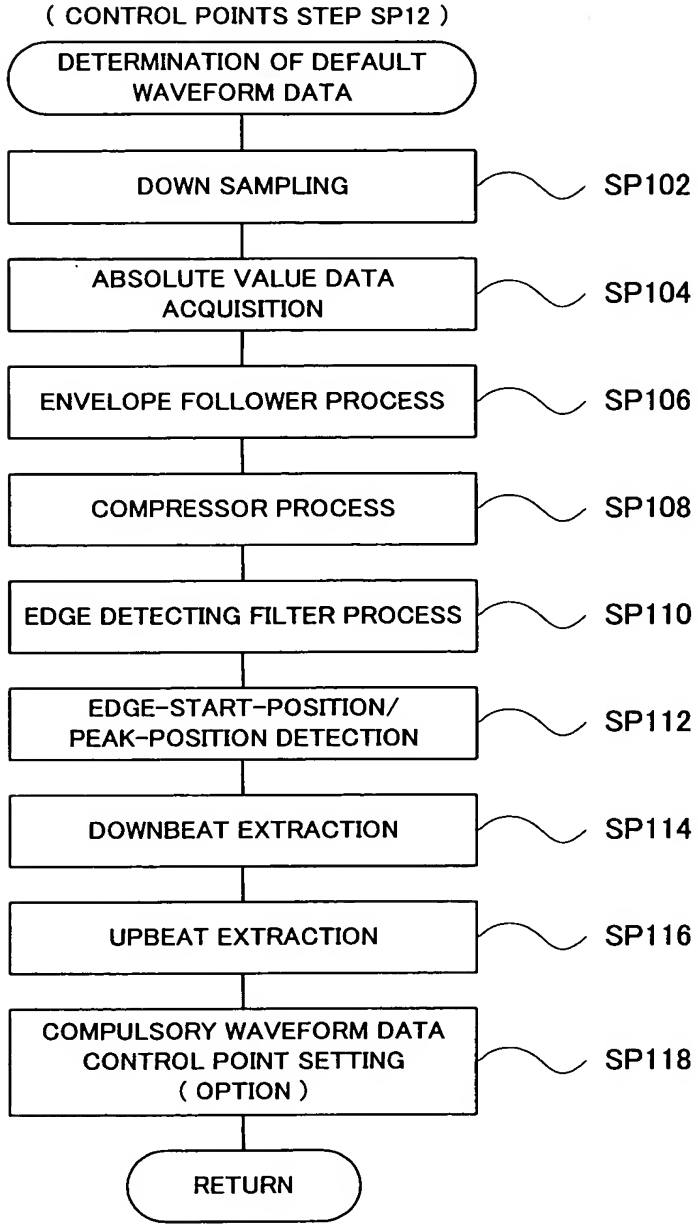

FIG. 6

EP05439.0100

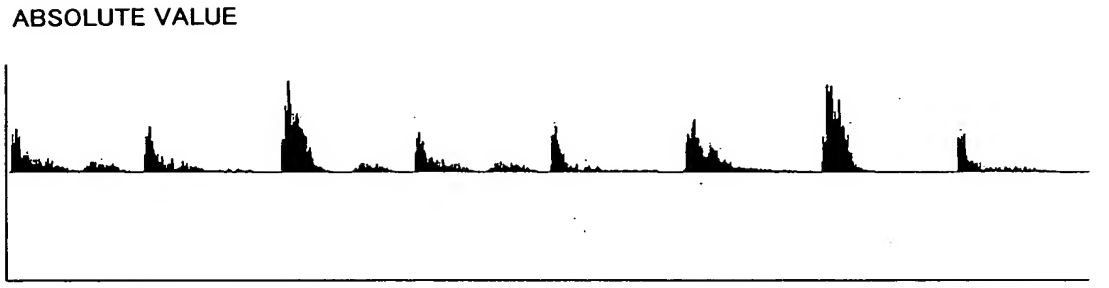

FIG. 7A

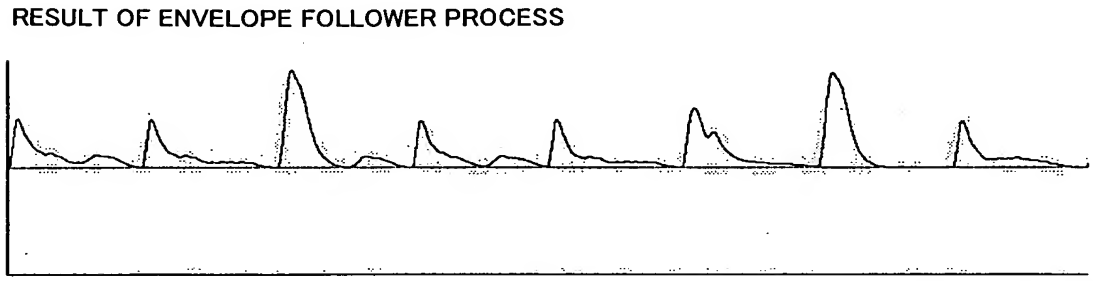

FIG. 7B

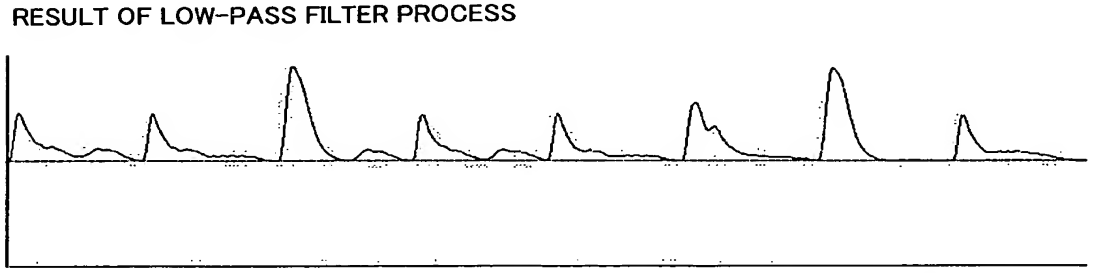

FIG. 7C

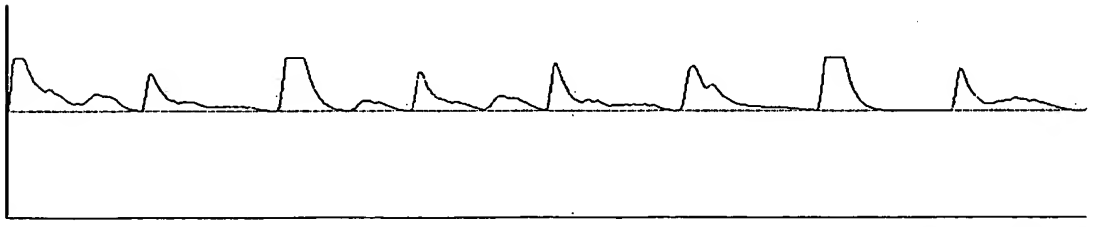

FIG. 7D

2005-07-05 15:07:59 2005742 P.05/26

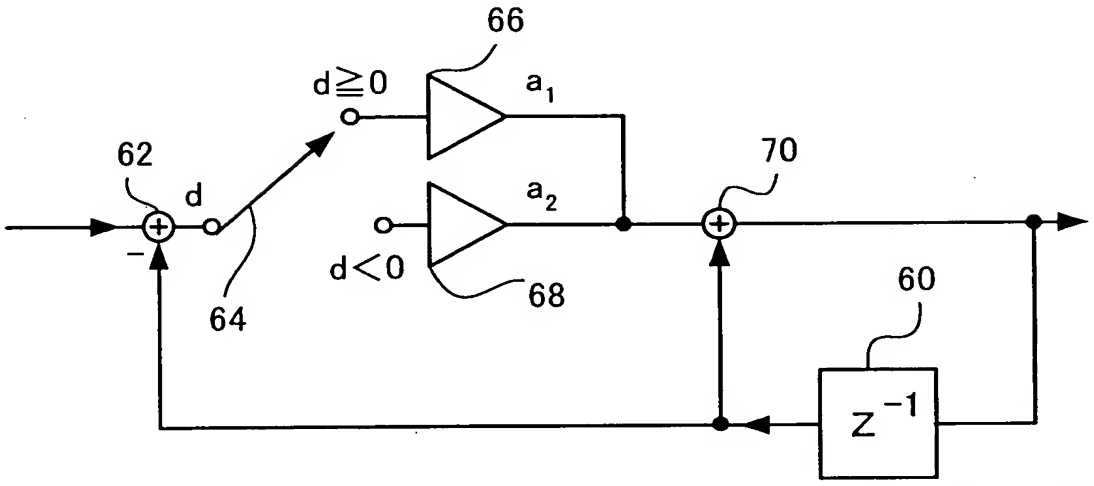

FIG. 8

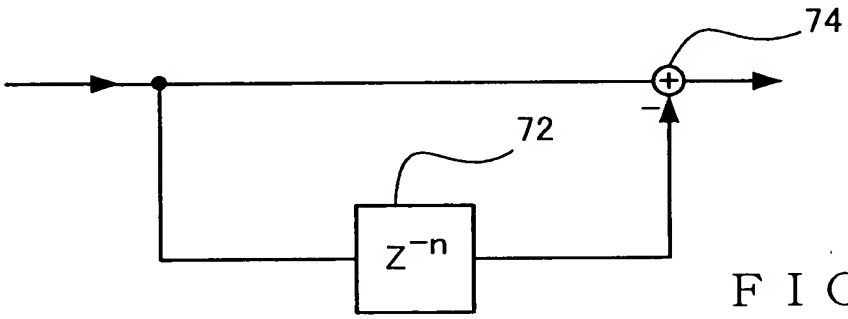

FIG. 9A

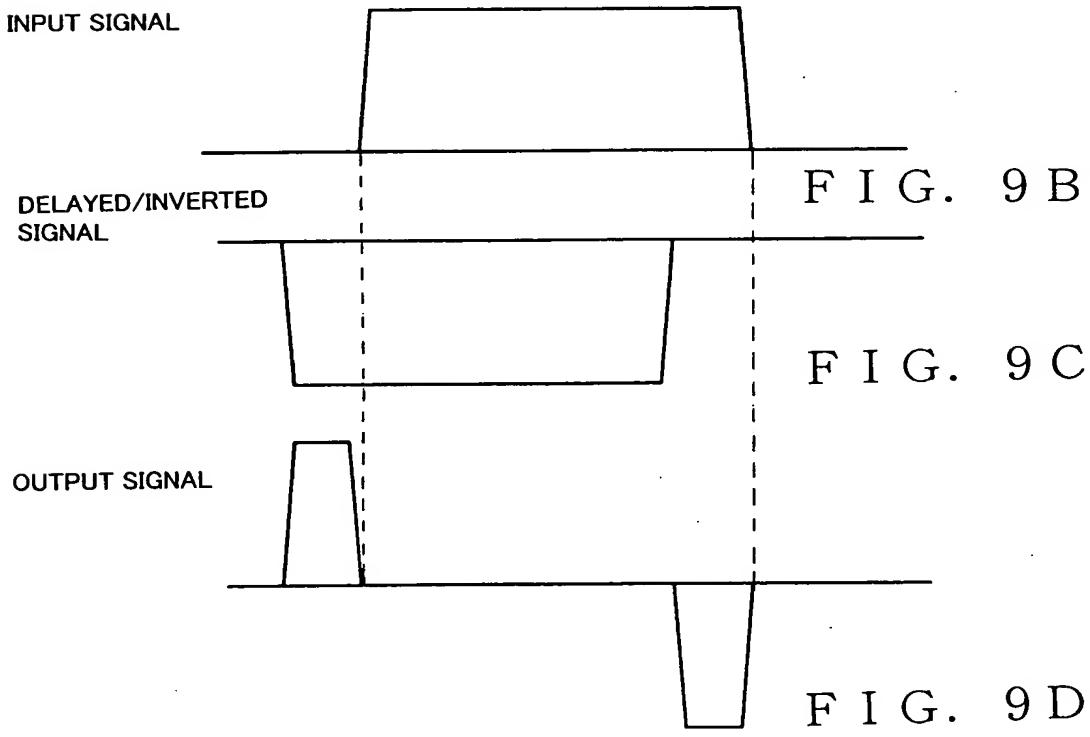

FIG. 9B

FIG. 9C

FIG. 9D

20050134060

RESULT OF EDGE EXTRACTION

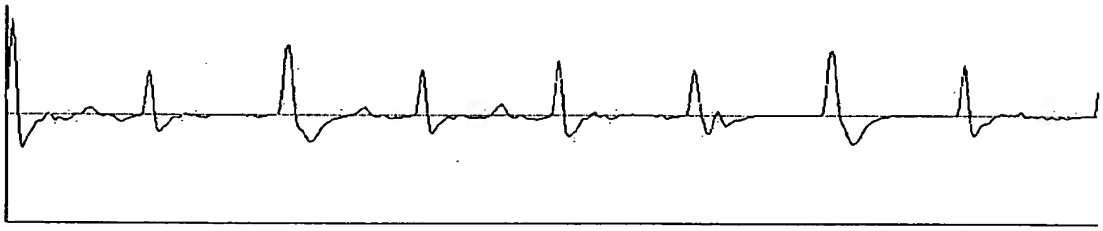

FIG. 10A

EDGE INFORMATION

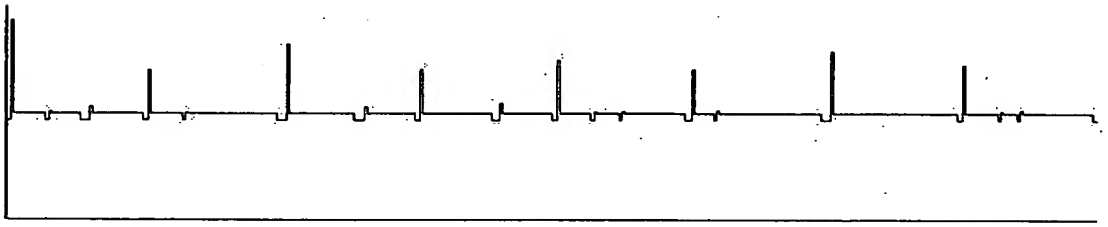

FIG. 10B

DOWNBEAT DETECTING WINDOW

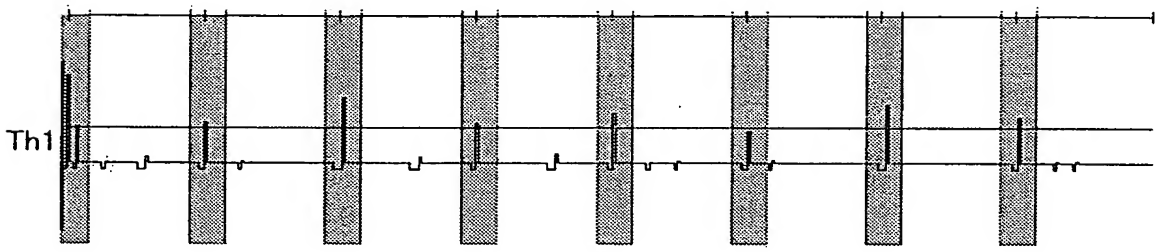

FIG. 10C

RESULT OF DOWNBEAT DETECTION

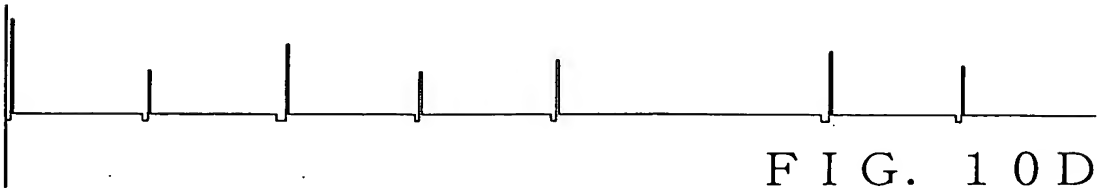

FIG. 10D

EDGE-SYSTEMS-00400

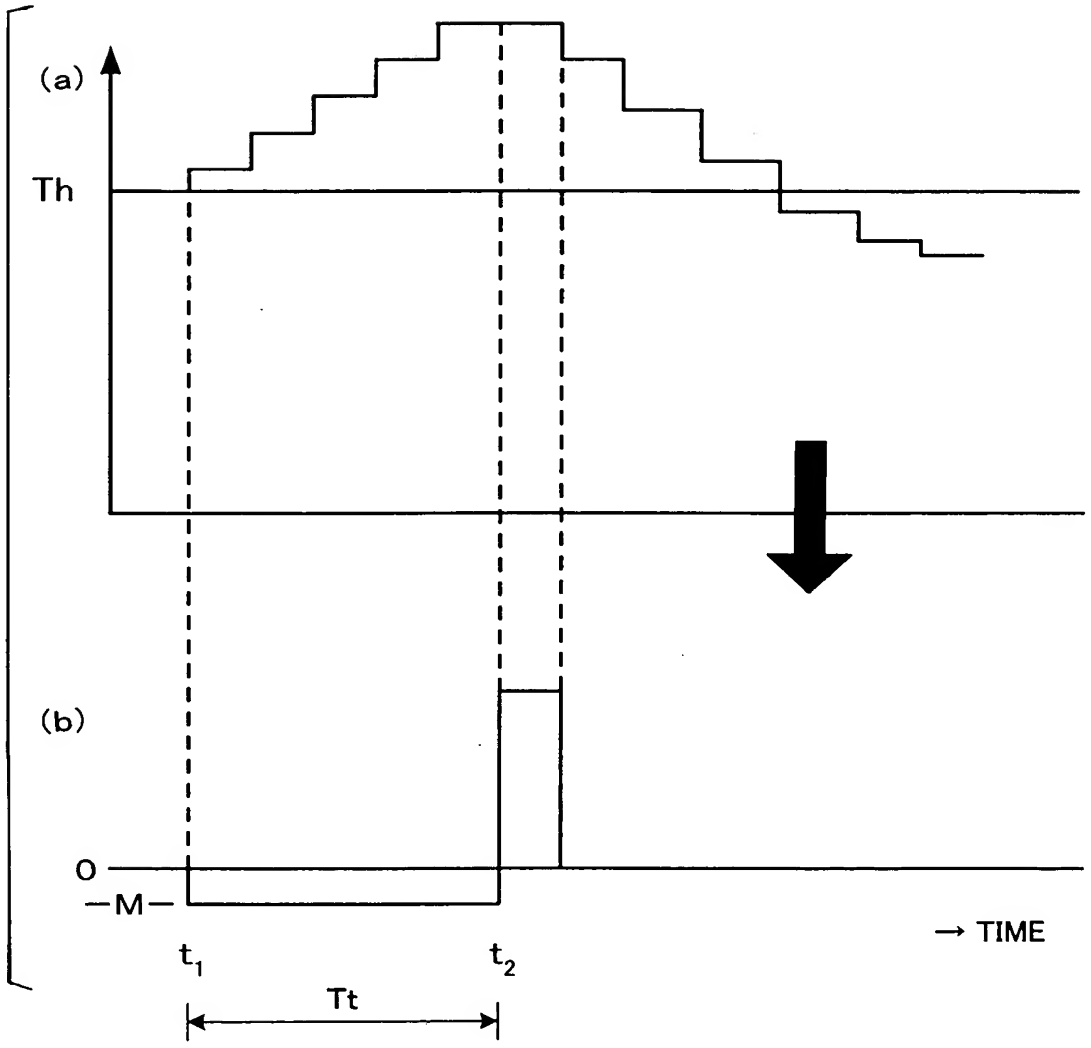

FIG. 11

UPBEAT DETECTING WINDOW

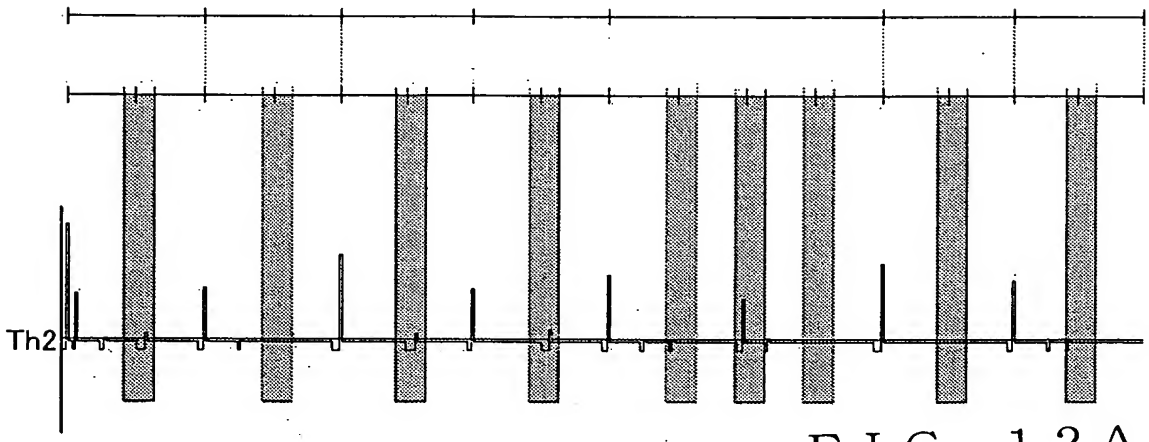

FIG. 12A

RESULT OF DOWNBEAT & UPBEAT DETECTION

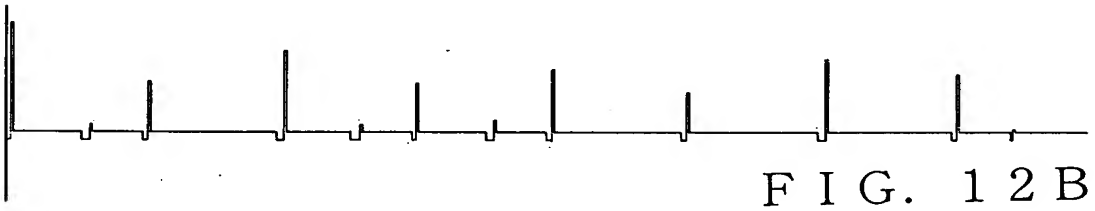

FIG. 12B

EDGE INFORMATION EXCLUDED FROM DETECTING WINDOW

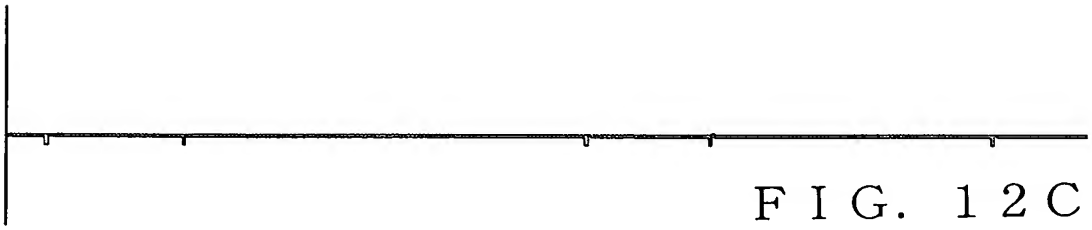

FIG. 12C

393032030300

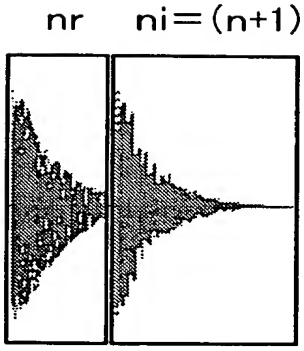

FIG. 13A

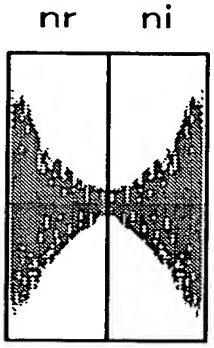

FIG. 13B

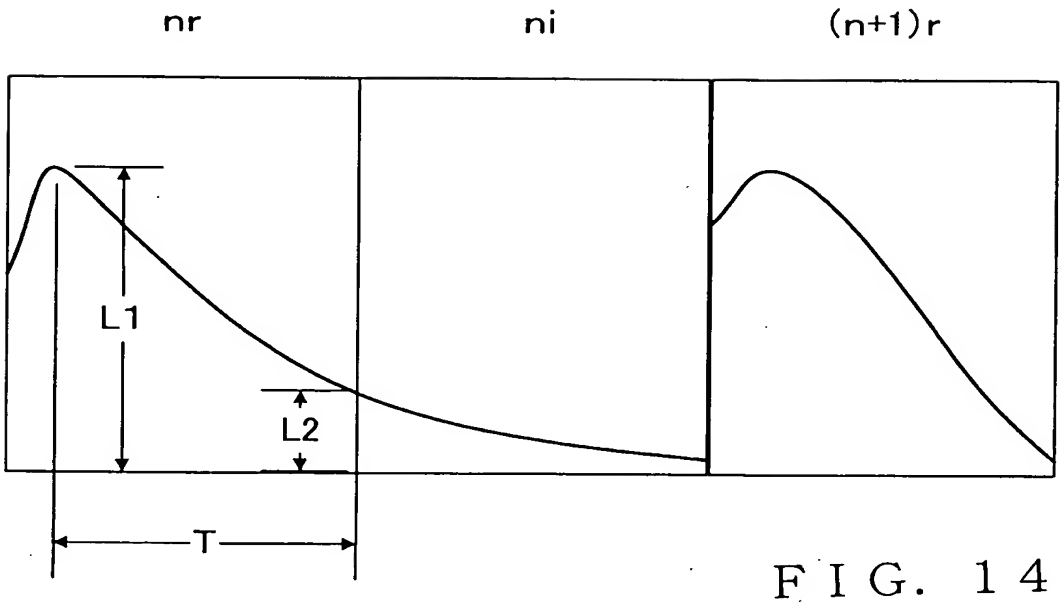

FIG. 14

WAVEFORM-DATA-GENERATION-START TRIGGERING CLOCK COUNT	WAVEFORM DATA	RISING TIME Tt [msec]
0	1t	0
28	2t	30
74	3t	40
:	:	:
349	11t	20
370	12t	10

FIG. 16

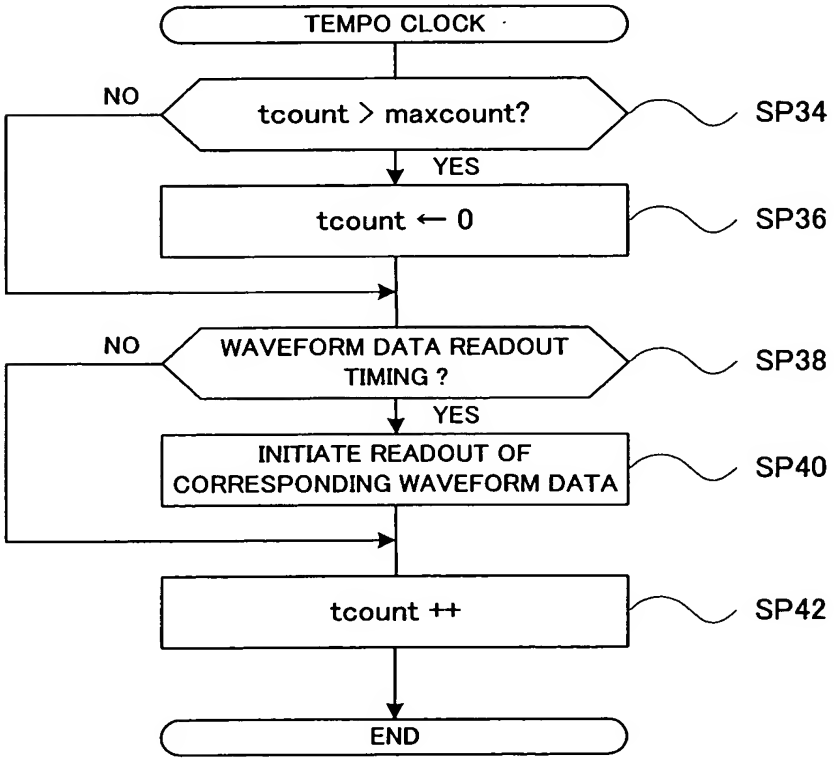

FIG. 17

EP05743050

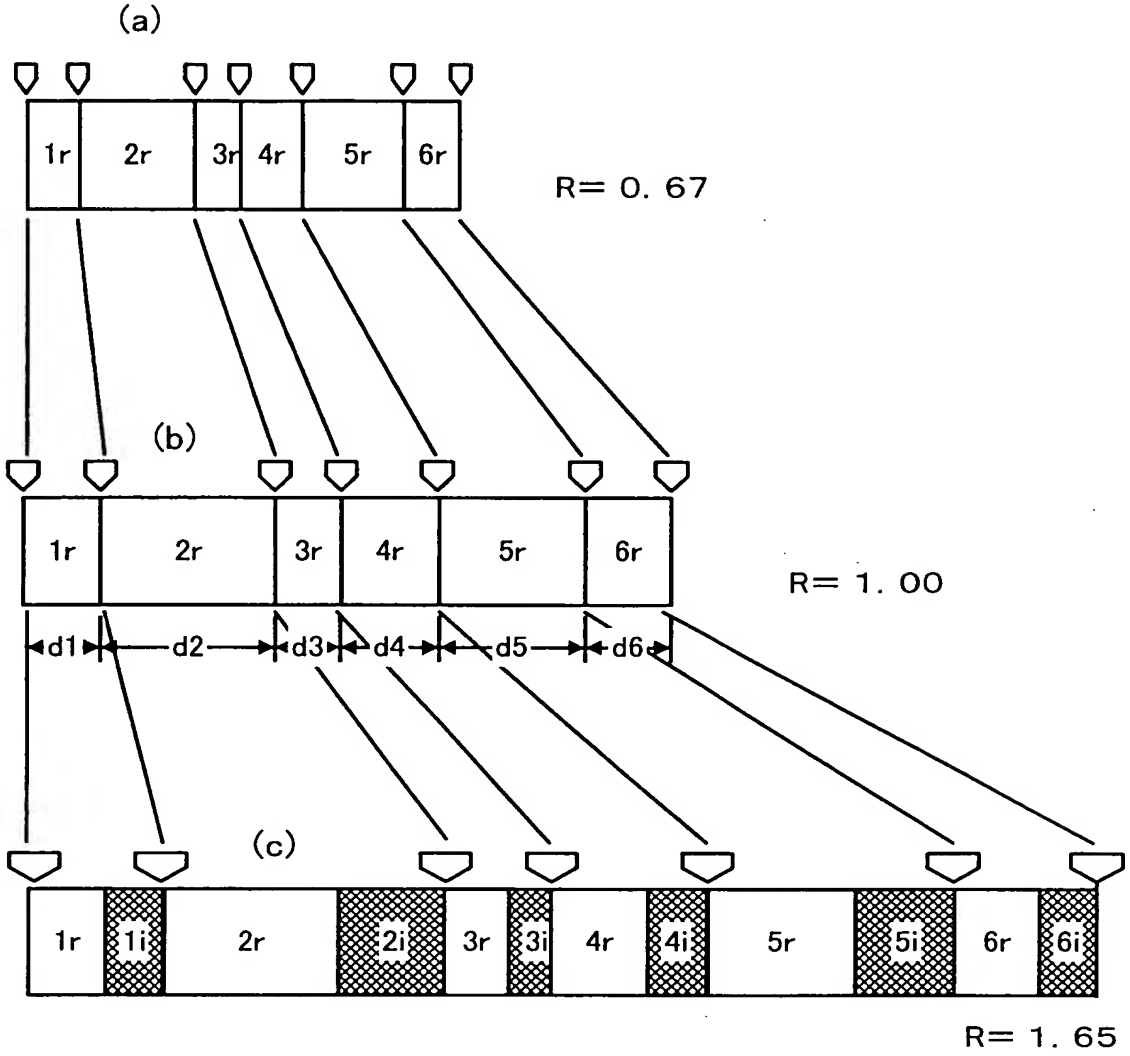

FIG. 18

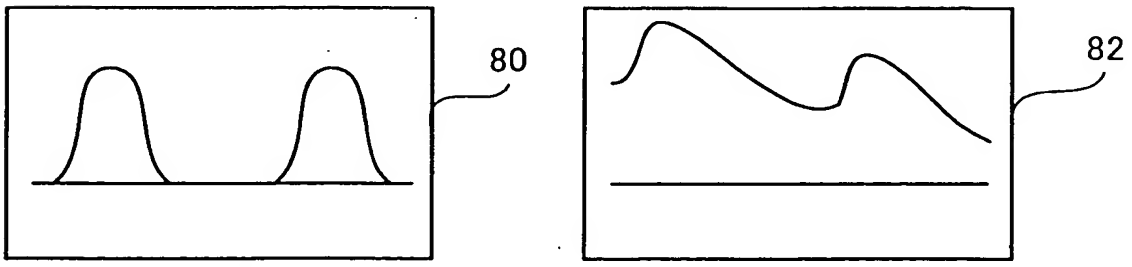

FIG. 19

Docket No. 393032030300

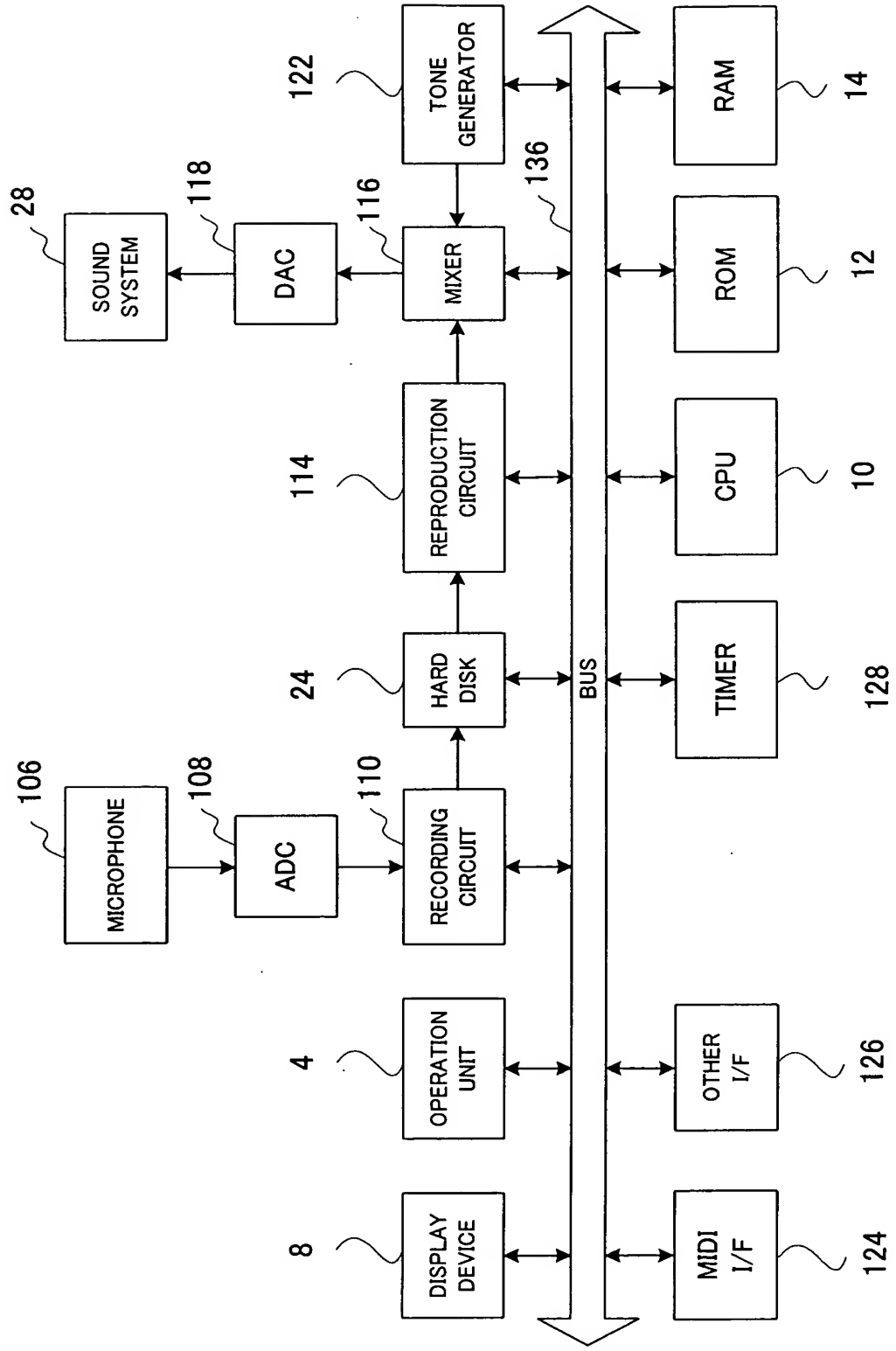

FIG. 20

393032030300

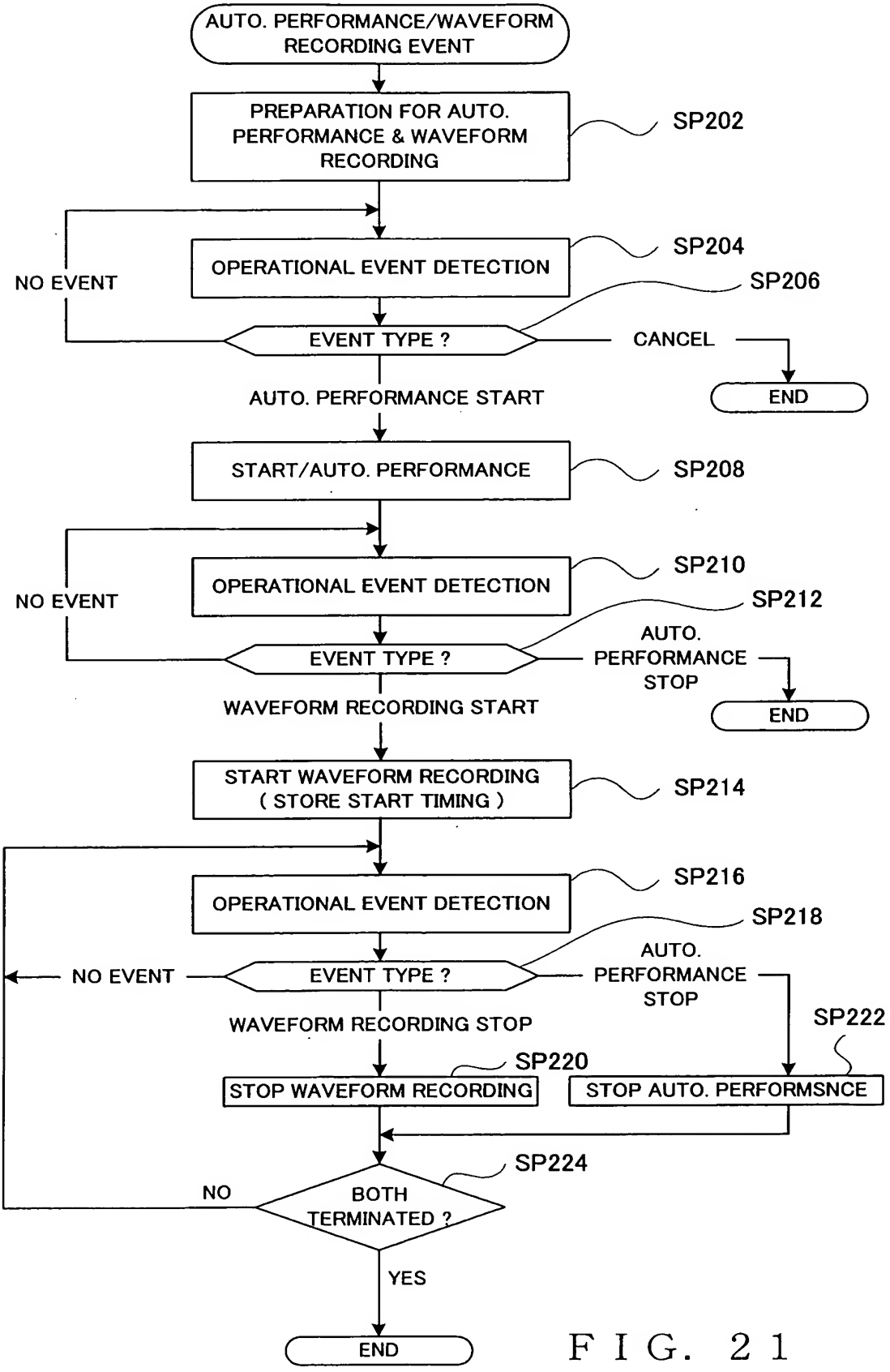
AUTO. PERFORMANCE/WAVEFORM RECORDING EVENT
PREPARATION FOR AUTO. PERFORMANCE & WAVEFORM RECORDING
SP202
OPERATIONAL EVENT DETECTION
SP204
NO EVENT
SP206
EVENT TYPE ?
CANCEL
END
AUTO. PERFORMANCE START
START/AUTO. PERFORMANCE
SP208
OPERATIONAL EVENT DETECTION
SP210
NO EVENT
SP212
EVENT TYPE ?
AUTO. PERFORMANCE STOP
END
WAVEFORM RECORDING START
START WAVEFORM RECORDING (STORE START TIMING)
SP214
OPERATIONAL EVENT DETECTION
SP216
SP218
NO EVENT
EVENT TYPE ?
AUTO. PERFORMANCE STOP
WAVEFORM RECORDING STOP
SP222
SP220
STOP WAVEFORM RECORDING
STOP AUTO. PERFORMSNCE
SP224
NO
BOTH TERMINATED ?
YES
END

FIG. 21

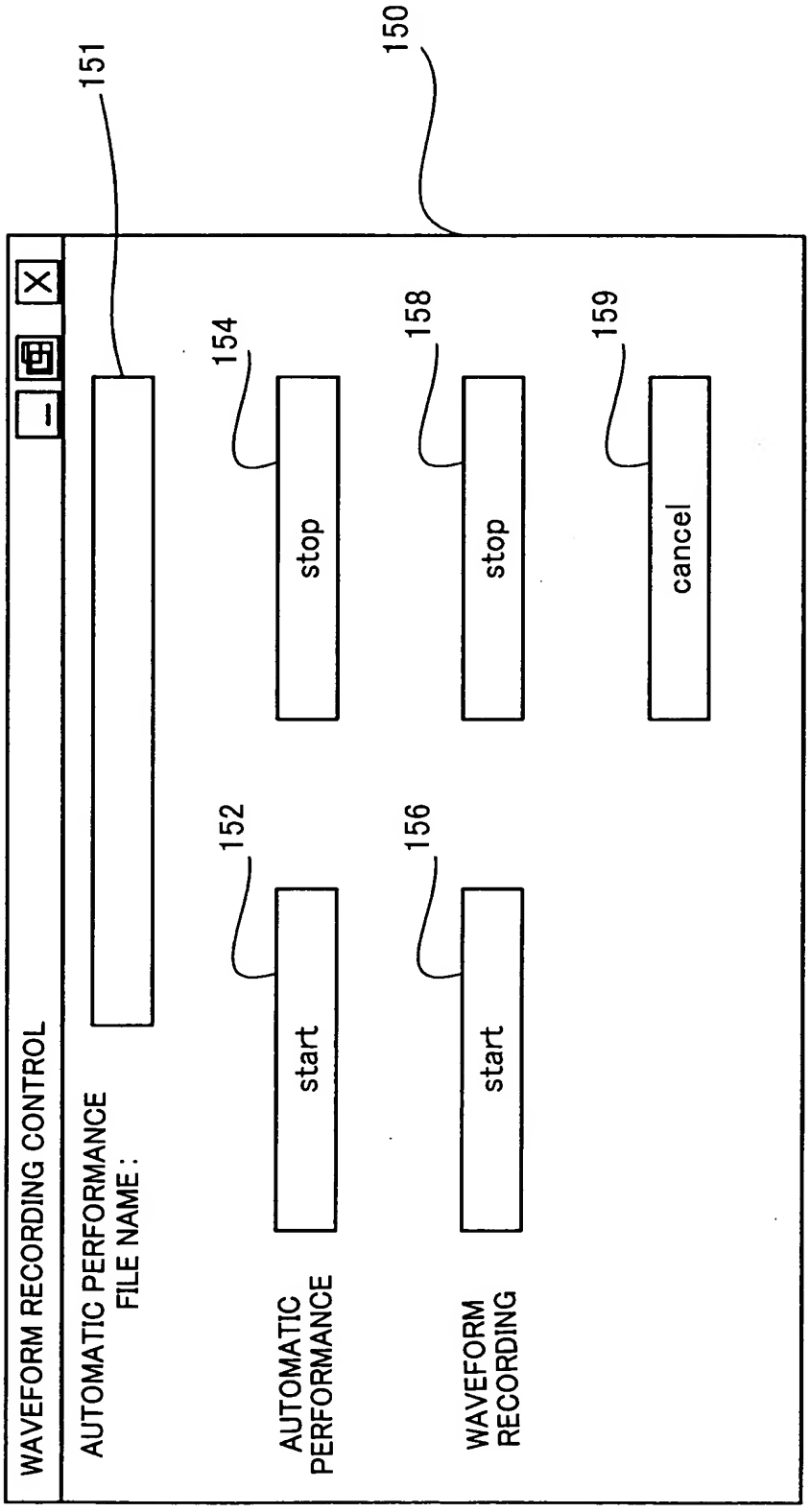

FIG. 22

20070 "E/6T5007E

AUTOMATIC PERFORMANCE DATA

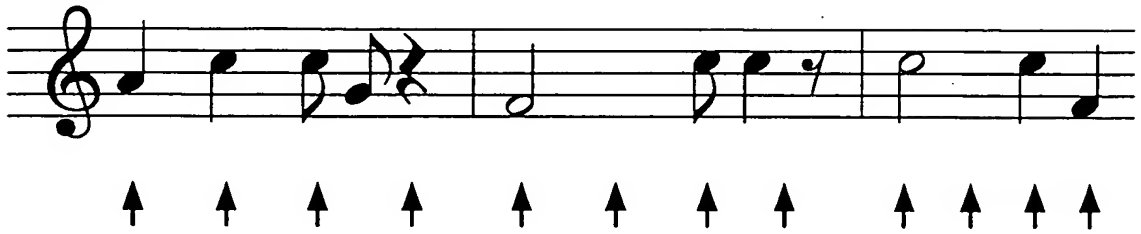

FIG. 23A

PHRASE WAVEFORM DATA

FIG. 23B

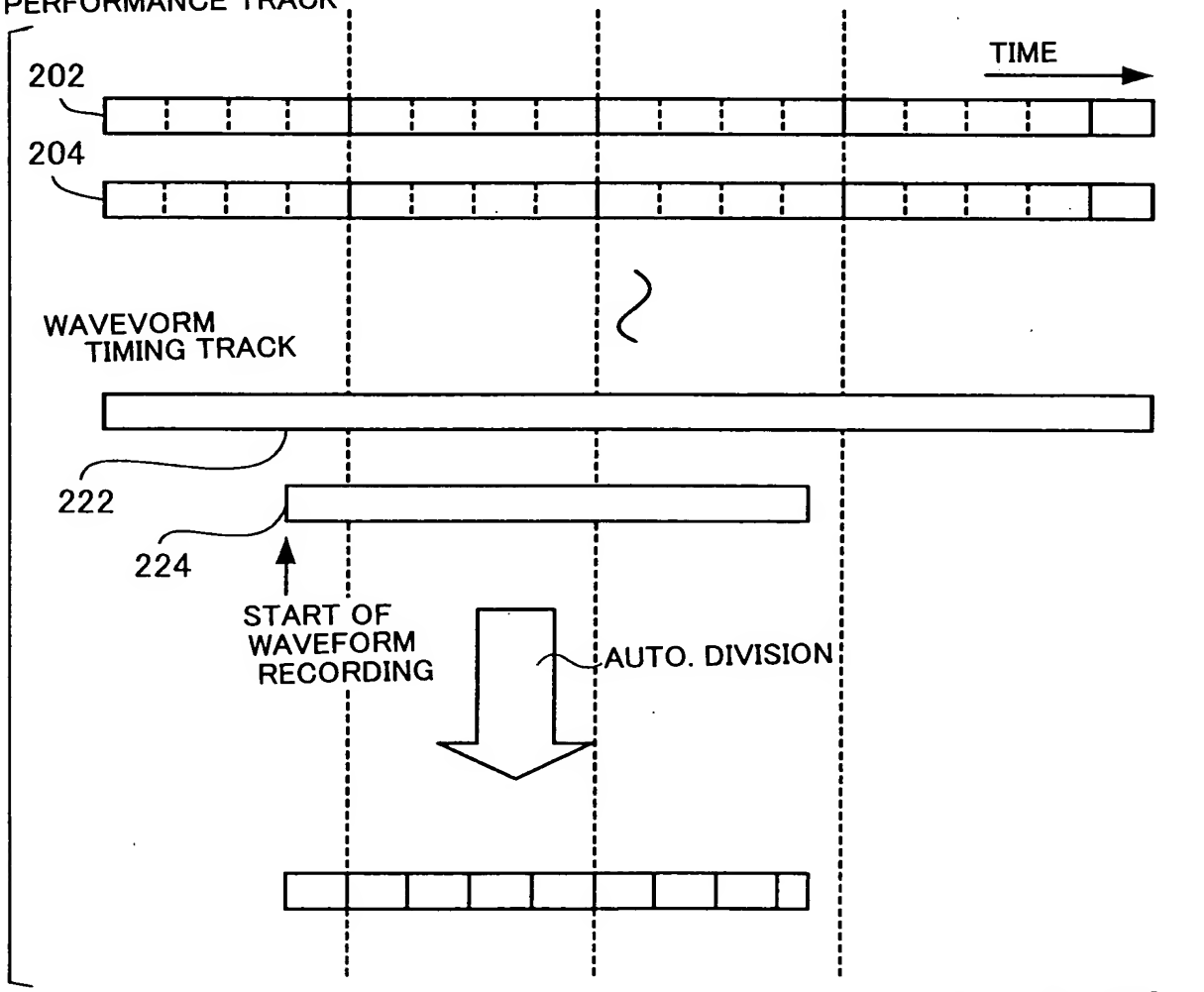

FIG. 23C

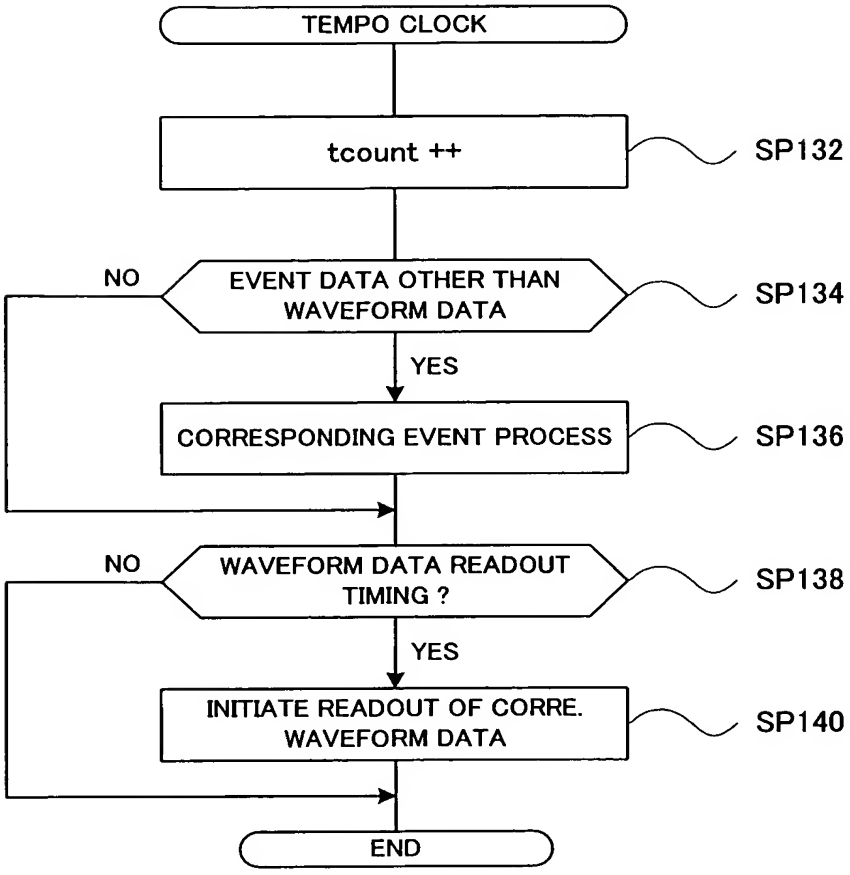

FIG. 24

EXPRESS MAIL NO. EL 974 690 905 US